

PARTICULATE COLLECTING FILTER FOR EXHAUST GAS PURIFIER AND ITS MANUFACTURE

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Abstract

PURPOSE: To evade any increase in pressure loss and improve regenerative efficiency by making the surface of a porous bulkhead alternately partitioning the respective cells in the upper and lower parts of the filter to directly carry catalytic particulates, which oxidize particulates at a low temperature, without going through a wash coat layer.

CONSTITUTION: A filter 2 has respective upstream side and downstream side cells 21, 22, whose open ends on the upstream and the downstream sides are closed by respective plugs 20, alternately stacked through a porous bulkhead 23. Exhaust gas penetrates from the upstream side cell 21 to the downstream side cell 22 through a porous bulkhead 23 and only the particulates are collected by the porous bulkhead 23. In this case, the surface of the porous bulkhead 23 is made to directly carry catalytic particulates 24, which oxidize collected particulates at a low temperature, without having a wash coat layer interposed between them. Meantime, in manufacturing filters, they are dried and baked after soaking them without wash coating in water solution containing catalytic compound.

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